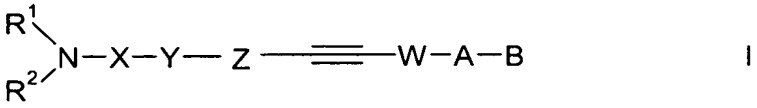
What is claimed is:

1. Alkyne compounds of general formula I



I

wherein

R^1, R^2 independently of one another denote H, a C_{1-8}-alkyl or C_{3-7}-cycloalkyl group optionally substituted by the group R^{11}, while a $-CH_2-$ group in position 3 or 4 of a 5-, 6- or 7-membered cycloalkyl group may be replaced by -O-, -S- or $-NR^{13}-$, or a phenyl or pyridinyl group optionally mono- or polysubstituted by the group R^{12} and/or monosubstituted by nitro, or

R^1 and R^2 form a C_{2-8}-alkylene bridge wherein

- one or two $-CH_2-$ groups independently of one another may be replaced by -CH=N- or -CH=CH- and/or
- one or two $-CH_2-$ groups may be replaced independently of one another by -O-, -S-, -SO-, $-(SO_2)-$, $-C=N-R^{18}-$, $-C=N-O-R^{18}-$, -CO-, $-C(=CH_2)-$ or $-NR^{13}-$ in such a way that heteroatoms are not directly connected to one another,

while in the above-defined alkylene bridge one or more H atoms may be replaced by R^{14}, and

while the above-defined alkylene bridge may be substituted by one or two identical or different carbo- or heterocyclic groups Cy in such a way that the bond between the alkylene bridge and the group Cy is formed

- via a single or double bond,
- via a common C atom forming a spirocyclic ring system,
- via two common, adjacent C and/or N atoms forming a fused bicyclic ring system or
- via three or more C and/or N atoms forming a bridged ring system,

X denotes a single bond or a C_{1-6}-alkylene bridge wherein

- a $-CH_2-$ group may be replaced by -CH=CH- or -C≡C- and/or
- one or two $-CH_2-$ groups may be replaced independently of one another by -O-, -S-, -(SO)-, $-(SO_2)-$, -CO- or $-NR^4-$ in such a way that in each case two O, S or N atoms or an O and an S atom are not directly connected to one another,

while the bridge X may be attached to R^1 including the N atom attached to R^1 and X forming a heterocyclic group, while the bridge X may additionally also be attached to R^2, including the N-atom attached to R^2 and X, forming a heterocyclic group, and

two C atoms or one C and one N atom of the alkylene bridge may be joined together by an additional C_{1-4}-alkylene bridge, and

a C atom may be substituted by R^{10} and/or one or two C atoms in each case may be substituted with one or two identical or different substituents selected from C_{1-6}-alkyl, C_{2-6}-alkenyl, C_{2-6}-alkynyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, C_{4-7}-cycloalkenyl and C_{4-7}-cycloalkenyl-C_{1-3}-alkyl, while two alkyl and/or alkenyl substituents may be joined together, forming a carbocyclic ring system,

and

W, Z independently of one another denote a single bond or a C_{1-4}-alkylene bridge,

while in the group W and/or Z a $-CH_2-$ group not adjacent to the -C≡C group may be replaced by -O or $-NR^5-$, and

two adjacent C atoms or one C atom and an adjacent N atom may be joined together by an additional C_{1-4}-alkylene bridge, and

in the alkylene bridge and/or in the additional alkylene bridge a C atom may be substituted by R^{10} and/or one or two C atoms independently of one another may be substituted by one or two identical or different C_{1-6}-alkyl groups, while two alkyl groups may be joined together, forming a carbocyclic ring, and

Y denotes one of the meanings given for Cy,

while R^1 may be attached to Y including the group X and the N atom attached to R^1 and X , forming a heterocyclic group fused to Y, and/or

X may be attached to Y forming a carbo- or heterocyclic group fused to Y, and

A denotes one of the meanings given for Cy and

B denotes one of the meanings given for Cy or

C_{1-6}-alkyl, C_{1-6}-alkenyl, C_{1-6}-alkynyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, C_{3-7}-cycloalkenyl-C_{1-3}-alkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkenyl or C_{3-7}-cycloalkyl-C_{1-3}-alkynyl, wherein one or more C atoms may be mono- or polysubstituted by halogen and/ or may be monosubstituted by hydroxy

or cyano and/ or cyclic groups may be mono- or polysubstituted by R^{20},

Cy denotes a carbo- or heterocyclic group selected from one of the following meanings

- a saturated 3- to 7-membered carbocyclic group,
- an unsaturated 4- to 7-membered carbocyclic group,
- a phenyl group,
- a saturated 4- to 7-membered or unsaturated 5- to 7-membered heterocyclic group with an N, O or S atom as heteroatom,
- a saturated or unsaturated 5- to 7-membered heterocyclic group with two or more N atoms or with one or two N atoms and an O or S atom as heteroatoms,
- an aromatic heterocyclic 5- or 6-membered group with one or more identical or different heteroatoms selected from N, O and/or S,

while the above-mentioned 4-, 5-, 6- or 7-membered groups may be attached via two common, adjacent C atoms fused to a phenyl or pyridine ring, and

in the above-mentioned 5-, 6- or 7-membered groups one or two non-adjacent $-CH_2-$ groups may be replaced independently of one another by a -CO-, $-C(=CH_2)-$, -(SO)- or $-(SO_2)-$ group, and

the above-mentioned saturated 6- or 7-membered groups may also be present as bridged ring systems with an imino, (C_{1-4}-alkyl)-imino, methylene, (C_{1-4}-alkyl)-methylene or di-(C_{1-4}-alkyl)-methylene bridge, and

the above-mentioned cyclic groups may be mono- or polysubstituted at one or more C atoms with R^{20}, in the case of a phenyl group they may also additionally be monosubstituted with nitro, and/or one or more NH

groups may be substituted with R^{21},

R^4, R^5 independently of one another have one of the meanings given for R^{17},

R^{10} denotes hydroxy, ω-hydroxy-C_{1-3}-alkyl, C_{1-4}-alkoxy, ω-(C_{1-4}-alkoxy)-C_{1-3}-alkyl, carboxy, C_{1-4}-alkoxycarbonyl, amino, C_{1-4}-alkyl-amino, di-(C_{1-4}-alkyl)-amino, cyclo-C_{3-6}-alkyleneimino, amino-C_{1-3}-alkyl, C_{1-4}-alkyl-amino-C_{1-3}-alkyl, di-(C_{1-4}-alkyl)-amino-C_{1-3}-alkyl, cyclo-C_{3-6}-alkyleneimino-C_{1-3}-alkyl, amino-C_{2-3}-alkoxy, C_{1-4}-alkyl-amino-C_{2-3}-alkoxy, di-(C_{1-4}-alkyl)-amino-C_{2-3}-alkoxy, cyclo-C_{3-6}-alkyleneimino-C_{2-3}-alkoxy, aminocarbonyl, C_{1-4}-alkyl-aminocarbonyl, di-(C_{1-4}-alkyl)-aminocarbonyl, cyclo-C_{3-6}-alkyleneimino-carbonyl,

R^{11} denotes C_{2-6}-alkenyl, C_{2-6}-alkynyl, R^{15}-O, R^{15}-O-CO, R^{15}-CO-O, $R^{16}R^{17}N$, $R^{18}R^{19}N$-CO or Cy,

R^{12} has one of the meanings given for R^{20},

R^{13} has one of the meanings given for R^{17}, with the exception of carboxy,

R^{14} denotes halogen, C_{1-6}-alkyl, C_{2-6}-alkenyl, C_{2-6}-alkynyl, R^{15}-O, R^{15}-O-CO, R^{15}-CO, R^{15}-CO-O, $R^{16}R^{17}N$, $R^{18}R^{19}N$-CO, R^{15}-O-C_{1-3}-alkyl , R^{15}-O-CO-C_{1-3}-alkyl, R^{15}-O-CO-NH, R^{15}-SO_2-NH, R^{15}-O-CO-NH-C_{1-3}-alkyl, R^{15}-SO_2-NH-C_{1-3}-alkyl, R^{15}-CO-C_{1-3}-alkyl, R^{15}-CO-O-C_{1-3}-alkyl, $R^{16}R^{17}N$-C_{1-3}-alkyl, $R^{18}R^{19}N$-CO-C_{1-3}-alkyl or Cy-C_{1-3}-alkyl,

R^{15} denotes H, C_{1-4}-alkyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, phenyl, phenyl-C_{1-3}-alkyl, pyridinyl or pyridinyl-C_{1-3}-alkyl,

R^{16} denotes H, C_{1-6}-alkyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, C_{4-7}-cycloalkenyl, C_{4-7}-cycloalkenyl-C_{1-3}-alkyl, ω-hydroxy-C_{2-3}-alkyl, ω-(C_{1-}

$_4$-alkoxy)-C_{2-3}-alkyl, amino-C_{2-6}-alkyl, C_{1-4}-alkyl-amino-C_{2-6}-alkyl, di-(C_{1-4}-alkyl)-amino-C_{2-6}-alkyl or cyclo-C_{3-6}-alkyleneimino-C_{2-6}-alkyl,

R^{17} has one of the meanings given for R^{16} or denotes phenyl, phenyl-C_{1-3}-alkyl, pyridinyl, dioxolan-2-yl, -CHO, C_{1-4}-alkylcarbonyl, carboxy, hydroxycarbonyl-C_{1-3}-alkyl, C_{1-4}-alkoxycarbonyl, C_{1-4}-alkoxycarbonyl-C_{1-3}-alkyl, C_{1-4}-alkylcarbonylamino-C_{2-3}-alkyl, N-(C_{1-4}-alkylcarbonyl)-N-(C_{1-4}-alkyl)-amino-C_{2-3}-alkyl, C_{1-4}-alkylsulphonyl, C_{1-4}-alkylsulphonylamino-C_{2-3}-alkyl or N-(C_{1-4}-alkylsulphonyl)-N-(C_{1-4}-alkyl)-amino-C_{2-3}-alkyl

R^{18}, R^{19} independently of one another denote H or C_{1-6}-alkyl,

R^{20} denotes halogen, hydroxy, cyano, C_{1-6}-alkyl, C_{2-6}-alkenyl, C_{2-6}-alkynyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl- C_{1-3}-alkyl, hydroxy-C_{1-3}-alkyl, R^{22}-C_{1-3}-alkyl or has one of the meanings given for R^{22},

R^{21} denotes C_{1-4}-alkyl, ω-hydroxy-C_{2-6}-alkyl, ω-C_{1-4}-alkoxy-C_{2-6}-alkyl, ω-C_{1-4}-alkyl-amino-C_{2-6}-alkyl, ω-di-(C_{1-4}-alkyl)-amino-C_{2-6}-alkyl, ω-cyclo-C_{3-6}-alkyleneimino-C_{2-6}-alkyl, phenyl, phenyl-C_{1-3}-alkyl, C_{1-4}-alkyl-carbonyl, C_{1-4}-alkoxy-carbonyl, C_{1-4}-alkylsulphonyl, phenylcarbonyl or phenyl-C_{1-3}-alkyl-carbonyl,

R^{22} denotes pyridinyl, phenyl, phenyl-C_{1-3}-alkoxy, OHC, HO-N=HC, C_{1-4}-alkoxy-N=HC, C_{1-4}-alkoxy, C_{1-4}-alkylthio, carboxy, C_{1-4}-alkylcarbonyl, C_{1-4}-alkoxycarbonyl, aminocarbonyl, C_{1-4}-alkylamino-carbonyl, di-(C_{1-4}-alkyl)-aminocarbonyl, cyclo-C_{3-6}-alkyl-amino-carbonyl, cyclo-C_{3-6}-alkyleneimino-carbonyl, cyclo-C_{3-6}-alkyleneimino-C_{2-4}-alkyl-aminocarbonyl, C_{1-4}-alkyl-sulphonyl, C_{1-4}-alkyl-sulphinyl, C_{1-4}-alkyl-sulphonylamino, amino, C_{1-4}-alkylamino, di-(C_{1-4}-alkyl)-amino, C_{1-4}-alkyl-carbonyl-amino, cyclo-C_{3-6}-alkyleneimino, phenyl-C_{1-3}-alkylamino,

N-(C_{1-4}-alkyl)-phenyl-C_{1-3}-alkylamino, acetylamino, propionylamino, phenylcarbonyl, phenylcarbonylamino, phenylcarbonylmethylamino, hydroxy-C_{2-3}-alkylaminocarbonyl, (4-morpholinyl)carbonyl, (1-pyrrolidinyl)carbonyl, (1-piperidinyl)carbonyl, (hexahydro-1-azepinyl)carbonyl, (4-methyl-1-piperazinyl)carbonyl, methylenedioxy, aminocarbonylamino or alkylaminocarbonylamino,

while in the above-mentioned groups and residues, particularly in A, B, W, X, Y, Z, R^1 to R^5 and R^{10} to R^{22}, in each case one or more C atoms may additionally be mono- or polysubstituted by F and/or in each case one or two C atoms independently of one another may additionally be monosubstituted by Cl or Br and/or in each case one or more phenyl rings independently of one another additionally have one, two or three substituents selected from among F, Cl, Br, I, cyano, C_{1-4}-alkyl, C_{1-4}-alkoxy, difluoromethyl, trifluoromethyl, hydroxy, amino, C_{1-3}-alkylamino, di-(C_{1-3}-alkyl)-amino, acetylamino, aminocarbonyl, difluoromethoxy, trifluoromethoxy, amino-C_{1-3}-alkyl, C_{1-3}-alkylamino-C_{1-3}-alkyl- and di-(C_{1-3}-alkyl)-amino-C_{1-3}-alkyl- and/or may be monosubstituted by nitro, and

the H atom of any carboxy group present or an H atom bound to an N atom may each be replaced by a group which can be cleaved in vivo,

the tautomers, the diastereomers, the enantiomers, the mixtures thereof and the salts thereof.

2. Alkyne compounds according to claim 1, characterised in that

R^1, R^2 independently of one another denote H, a C_{1-8}-alkyl or C_{3-7}-cycloalkyl group optionally substituted by the group R^{11} or a phenyl group optionally mono- or polysubstituted by the group R^{12} and/or monosubstituted by nitro, or

R^1 and R^2 form a C_{2-8}-alkylene bridge, wherein

- one or two $-CH_2-$ groups independently of one another may be replaced by -CH=N- or -CH=CH- and/or
- one or two $-CH_2-$ groups independently of one another may be replaced by -O-, -S-, -CO-, $-C(=CH_2)-$ or $-NR^{13}-$ in such a way that heteroatoms are not directly joined together,

while in the alkylene bridge defined hereinbefore one or more H atoms may be replaced by R^{14}, and

the alkylene bridge defined hereinbefore may be substituted by one or two identical or different carbo- or heterocyclic groups Cy in such a way that the bond betwen the alkylene bridge and the group Cy is made

- via a single or double bond,
- via a common C atom forming a spirocyclic ring system,
- via two common adjacent C- and/or N atoms forming a fused bicyclic ring system or
- via three or more C- and/or N atoms forming a bridged ring system,

X denotes a single bond or a C_{1-6}-alkylene bridge, wherein

- a $-CH_2-$ group may be replaced by -CH=CH- or -C≡C- and/or
- one or two $-CH_2-$ groups independently of one another may be replaced by -O-, -S-, -(SO)-, $-(SO_2)-$, -CO- or $-NR^4-$ in such a way that in each case two O, S or N atoms or an O and an S atom are not directly joined together,

while the bridge X may be attached to R^1 including the N atom attached to R^1 and X, forming a heterocyclic group, and

while two C atoms or a C and an N atom of the alkylene bridge may be joined together by an additional C_{1-4}-alkylene bridge, and

a C atom may be substituted by R^{10} and/or one or two C atoms in each case may be substituted by one or two identical or different C_{1-6}-alkyl groups, and

W, Z independently of one another denote a single bond or a C_{1-4}-alkylene bridge,

while in the group W and/or Z a $-CH_2-$ group not adjacent to the -C≡C- group may be replaced by -O- or $-NR^5-$, and

two adjacent C atoms or a C atom and an adjacent N atom may be joined together by an additional C_{1-4}-alkylene bridge, and

in the alkylene bridge and/or in the additional alkylene bridge a C atom may be substituted by R^{10} and/or one or two C atoms independently of one another may be substituted by one or two identical or different C_{1-6}-alkyl groups, and

B has one of the meanings given for Cy or

denotes C_{1-6}-alkyl, C_{1-6}-alkenyl, C_{1-6}-alkynyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, C_{3-7}-cycloalkenyl-C_{1-3}-alkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkenyl or C_{3-7}-cycloalkyl-C_{1-3}-alkynyl, wherein one or more C atoms may be mono- or polysubstituted by fluorine and cyclic groups may be mono- or polysubstituted by R^{20},

R^{10} denotes hydroxy, ω-hydroxy-C_{1-3}-alkyl, C_{1-4}-alkoxy, ω-(C_{1-4}-alkoxy)-C_{1-3}-alkyl, amino, C_{1-4}-alkyl-amino, di-(C_{1-4}-alkyl)-amino, cyclo-C_{3-6}-alkyleneimino, amino-C_{1-3}-alkyl, C_{1-4}-alkyl-amino-C_{1-3}-alkyl, di-(C_{1-4}-alkyl)-amino-C_{1-3}-alkyl, cyclo-C_{3-6}-alkyleneimino-C_{1-3}-alkyl, amino-C_{2-3}-alkoxy, C_{1-4}-alkyl-amino-C_{2-3}-alkoxy, di-(C_{1-4}-alkyl)-amino-C_{2-3}-alkoxy or cyclo-C_{3-6}-alkyleneimino-C_{2-3}-alkoxy,

R^{13} has one of the meanings given for R^{17},

R^{14} denotes halogen, C_{1-6}-alkyl, R^{15}-O, R^{15}-O-CO, R^{15}-CO, R^{15}-CO-O, $R^{16}R^{17}N$, $R^{18}R^{19}N$-CO, R^{15}-O-C_{1-3}-alkyl , R^{15}-O-CO-C_{1-3}-alkyl, R^{15}-CO-C_{1-3}-alkyl, R^{15}-CO-O-C_{1-3}-alkyl, $R^{16}R^{17}N$-C_{1-3}-alkyl, $R^{18}R^{19}N$-CO-C_{1-3}-alkyl or Cy-C_{1-3}-alkyl,

R^{15} denotes H, C_{1-4}-alkyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, phenyl or phenyl-C_{1-3}-alkyl,

R^{17} has one of the meanings given for R^{16} or denotes phenyl, phenyl-C_{1-3}-alkyl, C_{1-4}-alkylcarbonyl, hydroxycarbonyl-C_{1-3}-alkyl, C_{1-4}-alkylcarbonylamino-C_{2-3}-alkyl, N-(C_{1-4}-alkylcarbonyl)-N-(C_{1-4}-alkyl)-amino-C_{2-3}-alkyl, C_{1-4}-alkylsulphonyl, C_{1-4}-alkylsulphonylamino-C_{2-3}-alkyl or N-(C_{1-4}-alkylsulphonyl)-N(-C_{1-4}-alkyl)-amino-C_{2-3}-alkyl

R^{20} denotes halogen, hydroxy, cyano, C_{1-6}-alkyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl- C_{1-3}-alkyl, hydroxy-C_{1-3}-alkyl, R^{22}-C_{1-3}-alkyl or has one of the meanings given for R^{22},

R^{22} denotes phenyl, phenyl-C_{1-3}-alkoxy, C_{1-4}-alkoxy, C_{1-4}-alkylthio, carboxy, C_{1-4}-alkylcarbonyl, C_{1-4}-alkoxycarbonyl, aminocarbonyl, C_{1-4}-alkylaminocarbonyl, di-(C_{1-4}-alkyl)-aminocarbonyl, cyclo-C_{3-6}-

alkyleneimino-carbonyl, C_{1-4}-alkyl-sulphonyl, C_{1-4}-alkyl-sulphinyl, C_{1-4}-alkyl-sulphonylamino, amino, C_{1-4}-alkylamino, di-(C_{1-4}-alkyl)-amino, cyclo-C_{3-6}-alkyleneimino, phenyl-C_{1-3}-alkylamino, N-(C_{1-4}-alkyl)-phenyl-C_{1-3}-alkylamino, acetylamino, propionylamino, phenylcarbonyl, phenylcarbonylamino, phenylcarbonylmethylamino, hydroxyalkylaminocarbonyl, (4-morpholinyl)carbonyl, (1-pyrrolidinyl)-carbonyl, (1-piperidinyl)carbonyl, (hexahydro-1-azepinyl)carbonyl, (4-methyl-1-piperazinyl)carbonyl, methylenedioxy, aminocarbonylamino or alkylaminocarbonylamino.

3. Alkyne compounds according to claim 1, characterised in that R^1, R^2 independently of one another represent H, C_{1-6}-alkyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, ω-hydroxy-C_{2-3}-alkyl, ω-(C_{1-4}-alkoxy)-C_{2-3}-alkyl, C_{1-4}-alkoxy-carbonyl-C_{1-4}-alkyl, carboxyl-C_{1-4}-alkyl, amino-C_{2-4}-alkyl, C_{1-4}-alkyl-amino-C_{2-4}-alkyl, di-(C_{1-4}-alkyl)-amino-C_{2-4}-alkyl, cyclo-C_{3-6}-alkyleneimino-C_{2-4}-alkyl, pyrrolidin-3-yl, N-(C_{1-4}-alkyl)-pyrrolidinyl, pyrrolidinyl-C_{1-3}-alkyl, N-(C_{1-4}-alkyl)-pyrrolidinyl-C_{1-3}-alkyl, piperidinyl, N-(C_{1-4}-alkyl)-piperidinyl, piperidinyl-C_{1-3}-alkyl, N-(C_{1-4}-alkyl)-piperidinyl-C_{1-3}-alkyl, phenyl, phenyl-C_{1-3}-alkyl, pyridyl or pyridyl-C_{1-3}-alkyl,

while in the above-mentioned groups and residues one or more C atoms may be mono- or polysubstituted by F and/or one or two C atoms may be monosubstituted independently of one another by Cl or Br, and

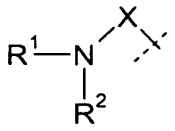
the phenyl or pyridyl group may be mono- or polysubstituted by the group R^{12} defined in claim 1 and/or may be monosubstituted by nitro.

4. Alkyne compounds according to one or more of claims 1 to 3, characterised in that R^1 and R^2 form an alkylene bridge according to claim 1 in such a way that R^1R^2N- denotes a group selected from azetidine, pyrrolidine, piperidine, azepan, 2,5 -dihydro-1H-pyrrole, 1,2,3,6-tetrahydro-

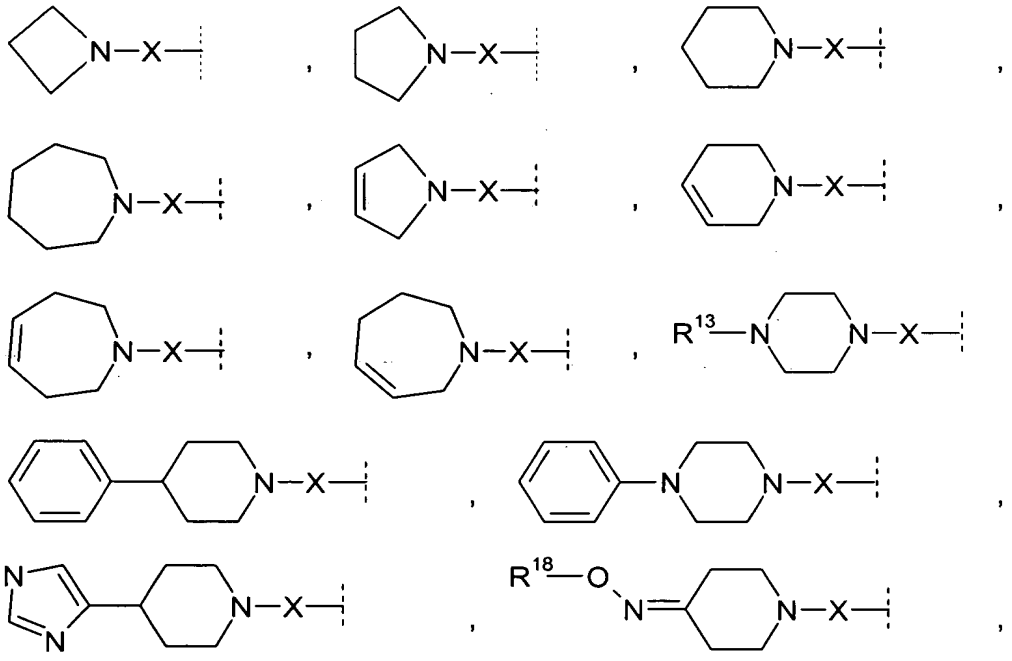
pyridine, 2,3,4,7-tetrahydro-1H-azepine, 2,3,6,7-tetrahydro-1H-azepine, piperazine, wherein the free imine function may be substituted by R^{13}, piperidin-4-one-oxime, piperidin-4-one-O-C_{1-4}-alkyl-oxime, morpholine and thiomorpholine,

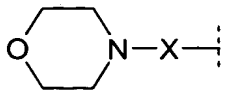
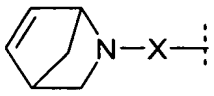
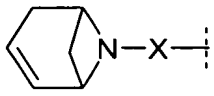
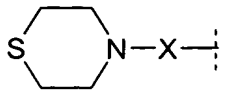
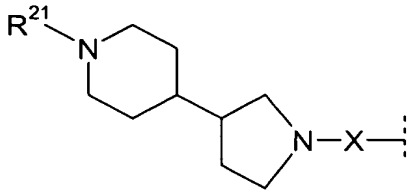
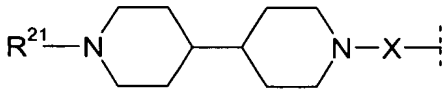
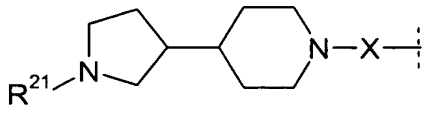
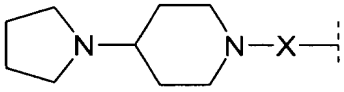
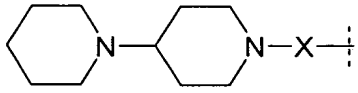
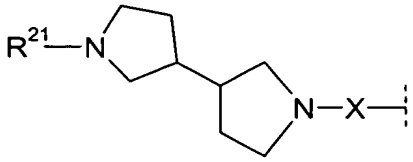
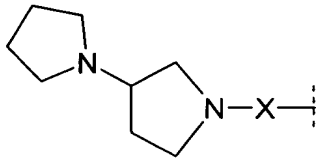
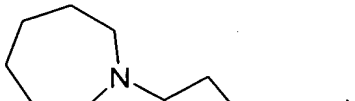
while according to claim 1 one or more H atoms may be replaced by R^{14}, and/ or the alkylene bridge may be substituted by one or two identical or different carbo- or heterocyclic groups Cy in a manner specified in claim 1.

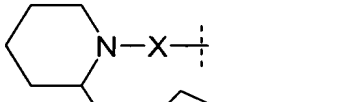
5. Alkyne compounds according to claim 1, characterised in that

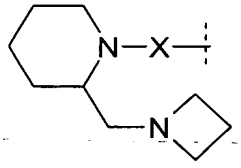
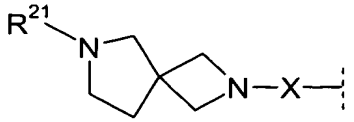
the group 

is defined according to one of the following partial formulae

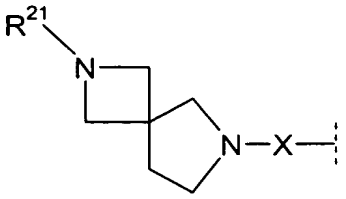
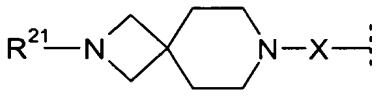


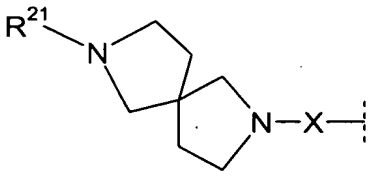
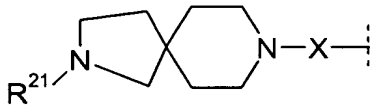

,

,

,

,

,

,

,

,

,

,

,

,

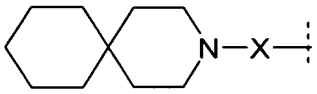
,

,

,

,

,

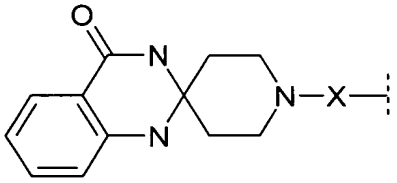
,

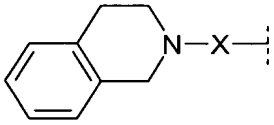
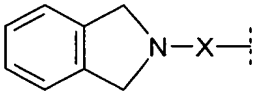
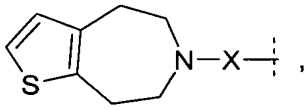

,

,,

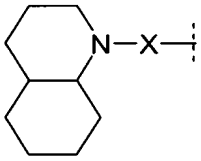
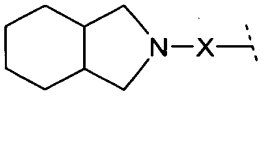
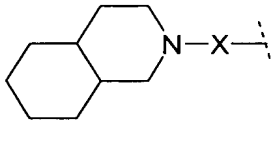

,

,

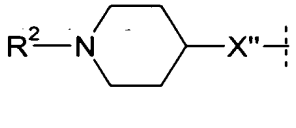
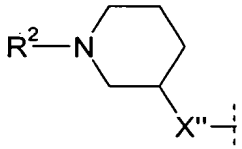
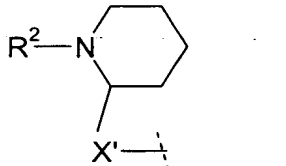

,

,


,


,

,

,

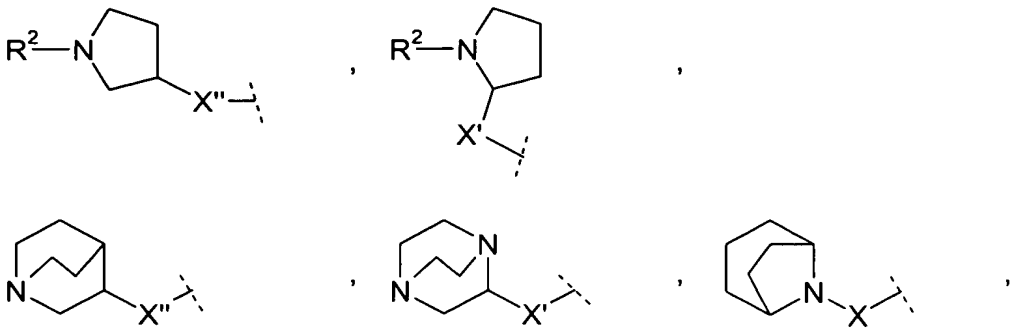

,

,

,


,

,

,

,

,

,



wherein one or more H atoms of the heterocycle formed by the group R^1R^2N- may be replaced by R^{14} and the ring attached to the heterocycle formed by the group R^1R^2N- may be mono- or polysubstituted by R^{20} at one or more C atoms, in the case of a phenyl ring may also additionally be monosubstituted by nitro and

X', X" independently of one another denote a single bond or C_{1-3}-alkylene and

in the event that the group Y is linked to X' or X" via a C atom, also denote -C_{1-3}-alkylene-O-, -C_{1-3}-alkylene-NH- or -C_{1-3}-alkylene-N(C_{1-3}-alkyl)-, and

X" additionally also denotes -O-C_{1-3}-alkylene-, -NH-C_{1-3}-alkylene- or -N(C_{1-3}-alkyl)-C_{1-3}-alkylene- and

in the event that the group Y is linked to X" via a C atom, also denotes -NH-, -N(C_{1-3}-alkyl)- or -O-,

while in the meanings given for X', X" hereinbefore, in each case a C atom may be substituted by R^{10}, preferably by a hydroxy, ω-hydroxy-C_{1-3}-alkyl, ω-(C_{1-4}-alkoxy)-C_{1-3}-alkyl and/or C_{1-4}-alkoxy group, and/or one or two C atoms in each case may be substituted by one or two identical or different substituents selected from C_{1-6}-alkyl, C_{2-6}-

alkenyl, C_{2-6}-alkynyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, C_{4-7}-cycloalkenyl and C_{4-7}-cycloalkenyl-C_{1-3}-alkyl, while two alkyl and/or alkenyl substituents may be joined together, forming a carbocyclic ring system, and

in X', X" independently of one another in each case one or more C atoms may be mono- or polysubstituted by F and/or in each case one or two C atoms independently of one another may be monosubstituted by Cl or Br.

6. Alkyne compounds according to claim 1, characterised in that X denotes a single bond or C_{1-4}-alkylene and

in the event that the group Y is linked to X via a C atom, it also denotes $-CH_2-CH=CH-$, $-CH_2-C\equiv C-$, C_{2-4}-alkylenoxy, C_{2-4}-alkylene-NR^4, C_{2-4}-alkylene-NR^4-C_{2-4}-alkylene-O, 1,2- or 1,3-pyrrolidinylene or 1,2-, 1,3- or 1,4-piperidinylene, while the pyrrolidinylene and piperidinylene groups are bound to Y via the imino group,

while the bridge X may be attached to R^1 including the N atom attached to R^1 and X, forming a heterocyclic group, and the bridge X may additionally also be attached to R^2, including the N atom attached to R^2 and X, forming a heterocyclic group, and

in X a C atom may be substituted by R^{10}, and/or one or two C atoms in each case may be substituted by one or two identical or different substituents selected from C_{1-6}-alkyl, C_{2-6}-alkenyl, C_{2-6}-alkynyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, C_{4-7}-cycloalkenyl and C_{4-7}-cycloalkenyl-C_{1-3}-alkyl, while two alkyl and/or alkenyl substituents may be joined together, forming a carbocyclic ring system, and

in the above-mentioned groups and residues one or more C atoms may be mono- or polysubstituted by F and/or one or two C atoms independently of one another may be monosubstituted by Cl or Br.

7. Alkyne compounds according to claim 6, characterised in that X denotes $-CH_2-$, $-CH_2-CH_2-$ or $-CH_2-CH_2-CH_2-$ and

in the event that the group Y is bonded to X via a C atom, it also denotes $-CH_2-C\equiv C-$ $-CH_2-CH_2-O-$, $-CH_2-CH_2-NR^4-$ or 1,3-pyrrolidinylene, while the pyrrolidinylene group is linked to Y via the imino group, and

the bridge X may be attached to R^1 including the N atom attached to R^1 and X, forming a heterocyclic group, and the bridge X may additionally also be attached to R^2, including the N atom attached to R^2 and X, forming a heterocyclic group, and

in X a C atom may be substituted by R^{10}, preferably a hydroxy, ω-hydroxy-C_{1-3}-alkyl, ω-(C_{1-4}-alkoxy)-C_{1-3}-alkyl and/or C_{1-4}-alkoxy group, and/or one or two C atoms in each case may be substituted by one or two identical or different substituents selected from C_{1-6}-alkyl, C_{2-6}-alkenyl, C_{2-6}-alkynyl, C_{3-7}-cycloalkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, C_{4-7}-cycloalkenyl and C_{4-7}-cycloalkenyl-C_{1-3}-alkyl, while two alkyl and/or alkenyl substituents may be joined together, forming a carbocyclic ring system, and

in each case one or more C atoms may be mono- or polysubstituted by F and/or in each case one or two C atoms independently of one another may be monosubstituted by Cl or Br.

8. Alkyne compounds according to claim 1, characterised in that W and/or Z independently of one another may denote a single bond, $-CH_2-$, $-CH_2-CH_2-$, $-CH_2-CH_2-CH_2-$ or cyclopropylene and

W may additionally also represent $-CH_2-O-$, $-CH_2-CH_2-O-$, $-CH_2-NR^4-$ or $-CH_2-CH_2-NR^4-$ and

Z may additionally also represent $-O-CH_2-$, $-O-CH_2-CH_2-$, $-NR^4-CH_2-$ or $-NR^4-CH_2-CH_2-$,

wherein a C atom may be substituted by R^{10}, preferably by a hydroxy, ω-hydroxy-C_{1-3}-alkyl, ω-(C_{1-4}-alkoxy)-C_{1-3}-alkyl- and/or C_{1-4}-alkoxy group, and/or one or two C atoms independently of one another may each be substituted by one or two identical or different C_{1-4}-alkyl groups, and

in each case one or more C atoms may be mono- or polysubstituted by F and/or in each case one or two C atoms may be monosubstituted independently of one another by Cl or Br.

9. Alkyne compounds according to claim 8, characterised in that W and/or Z independently of one another denote a single bond or are selected from among the bridges $-CH_2-$, $-CH_2-CH_2-$, $-CH_2-CH(CH_3)-$, $-CH_2-C(CH_3)_2-$, $-CH(CH_3)-CH_2-$, $-C(CH_3)_2-CH_2-$, cyclopropylene, $-CH_2-CH(R^{10})-$, $-CH(R^{10})-CH_2-$ and

W may additionally also represent $-CH_2-O-$ or $-CH_2-NR^4-$ and

Z may additionally also represent $-O-CH_2-$ or $-NR^4-CH_2-$,

wherein R^4 has the meanings given in claim 1, preferably -H, methyl, ethyl or propyl, and

wherein R^{10} has the meanings given in claim 1, preferably -OH,

N-pyrrolidinyl, amino-ethoxy, C_{1-4}-alkyl-amino-ethoxy, di-(C_{1-4}-alkyl)-amino-ethoxy, and

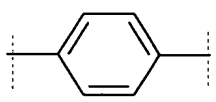
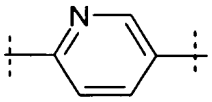
in each case one or more C atoms may be mono- or polysubstituted by F and/or in each case one or two C atoms may be monosubstituted independently of one another by Cl or Br.

10. Alkyne compounds according to claim 1, characterised in that the group Y is selected from among the bivalent cyclic groups phenyl, naphthyl, thienyl, benzothienyl, tetrahydronaphthyl, pyridinyl, pyrimidinyl, pyrazinyl, pyridazinyl, indolyl, dihydroindolyl, dihydroindolonyl, quinolinyl, tetrahydroquinolinyl, isoquinolinyl, tetrahydro-isoquinolinyl, indazolyl, benzimidazolyl, benzofuranyl or benzoxazolyl,

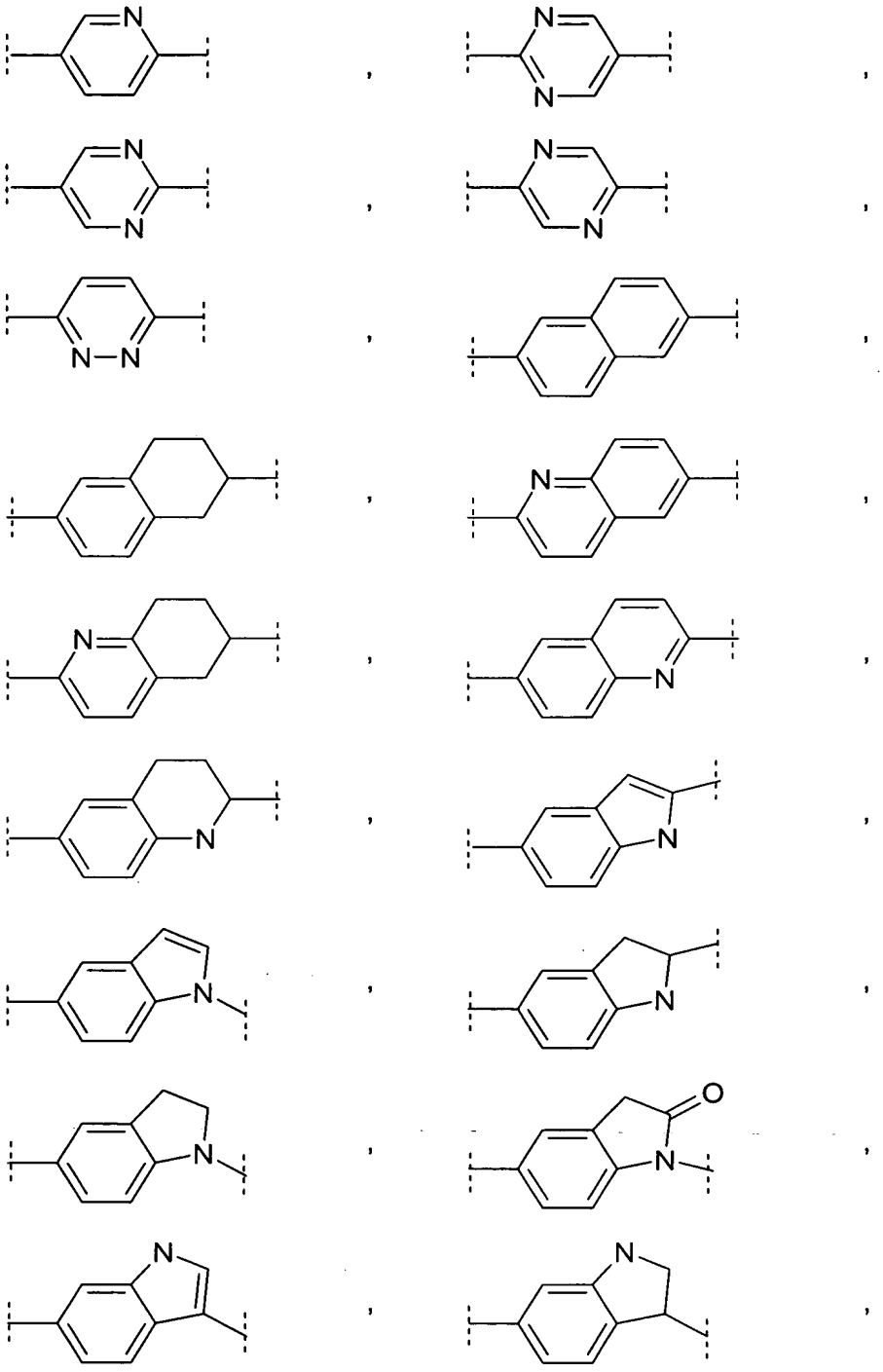
while the above-mentioned cyclic groups may be mono- or polysubstituted at one or more C atoms by R^{20}, and in the case of a phenyl group may also additionally be monosubstituted by nitro, and/or may be substituted by R^{21}at one or more N atoms,

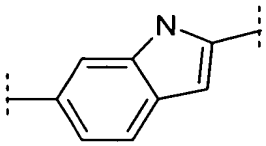
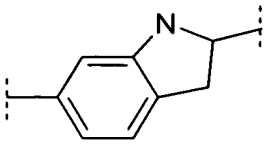
while R^1 may be attached to Y and/or X may be attached to Y as specified in claim 1.

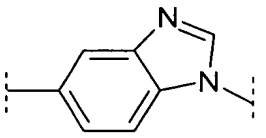
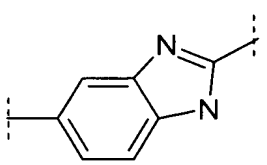
11. Alkyne compounds according to claim 1, characterised in that the group Y is selected from among the bivalent cyclic groups

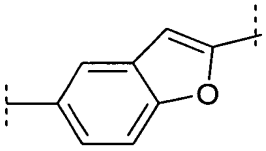
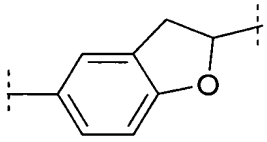
 , 

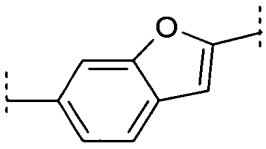
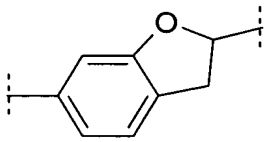
,

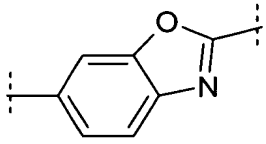
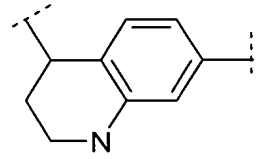


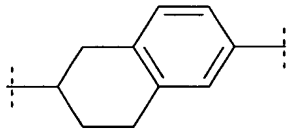
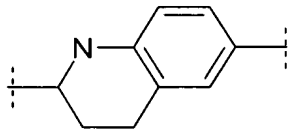

,

,

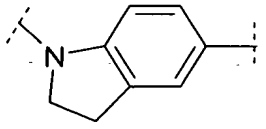
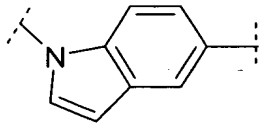

,

,

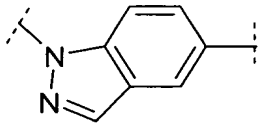
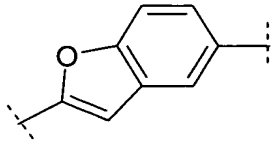

,

,

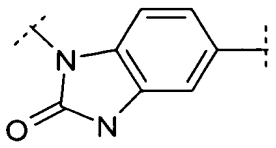
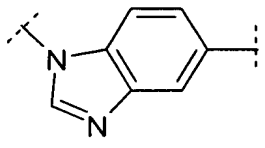

,

,


,

,


,

,


,

,


,

,

while the above-mentioned cyclic groups may be mono- or polysubstituted by R^{20} at one or more C atoms, and in the case of a phenyl group may also additionally be monosubstituted by nitro, and/or one or more NH groups may be substituted by R^{21}.

12. Alkyne compounds according to claim 1, characterised in that the group A is selected from among the bivalent cyclic groups phenyl, pyridinyl, pyrimidinyl, pyrazinyl or pyridazinyl,

while the above-mentioned cyclic groups may be mono- or polysubstituted at one or more C atoms by R^{20}, and in the case of a phenyl ring may also additionally be monosubstituted by nitro, and/or one or more NH groups may be substituted by R^{21}.

13. Alkyne compounds according to claim 1, characterised in that the group B is selected from the first group comprising phenyl, thienyl and furanyl or

from the second group comprising C_{1-6}-alkyl, C_{1-6}-alkenyl, C_{1-6}-alkynyl, C_{3-7}-cycloalkyl-C_{1-3}-alkyl, C_{3-7}-cycloalkenyl-C_{1-3}-alkyl, C_{3-7}-cycloalkyl-C_{1-3}-alkenyl, C_{3-7}-cycloalkyl-C_{1-3}-alkynyl, wherein one or more C atoms may be mono- or polysubstituted by fluorine, and

the above-mentioned cyclic groups may be mono- or polysubstituted by R^{20} at one or more C atoms, and in the case of a phenyl group may also additionally be monosubstituted by nitro.

14. Alkyne compounds according to claim 1, characterised in that

R^{20} denotes F, Cl, Br, I, OH, cyano, methyl, difluoromethyl, trifluoromethyl, ethyl, n-propyl, iso-propyl, methoxy, difluoromethoxy, trifluoromethoxy, ethoxy, n-propoxy or iso-propoxy, while any substituents R^{20} occurring repeatedly may have identical or different meanings.

15. Alkyne compounds according to claim 1 selected from the formulae

(1) 5-(4-chloro-phenyl)-2-[5-(2-pyrrolidin-1-yl-ethoxy)-pyridin-2-yl-ethynyl]-pyridine

(2) [(R)-1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-pyrrolidin-2-yl]-methanol

(3) 5-(4-chloro-phenyl)-2-[2-(4-methyl-piperidin-1-ylmethyl)-benzofuran-5-ylethynyl]-pyridine

(4) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-1-(2-pyrrolidin-1-yl-ethyl)-1,3-dihydro-benzimidazol-2-one

(5) [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-piperidin-4-yl]-methanol

(6) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-piperidin-3-ol

(7) N-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenyl}-2-pyrrolidin-1-yl-propionamide

(8) 1-{3-[5-(4-chloro-phenyl)-pyridin-2-yl]-prop-2-ynyl}-5-pyrrolidin-1-ylmethyl-1H-indole

(9) 2-[4-(4-azetidin-1-ylmethyl-phenyl)-but-1-ynyl]-5-(4-chloro-phenyl)-pyridine

(10) 5-(4-chloro-phenyl)-2-[4-(4-piperidin-1-ylmethyl-phenyl)-but-1-ynyl]-pyridine

(11) 5-(4-bromo-phenyl)-2-[4-(4-pyrrolidin-1-ylmethyl-phenyl)-but-1-ynyl]-pyridine

(12) 2-[(4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-methyl-amino]-ethanol

(13) 5-(4-chloro-phenyl)-2-{4-[4-((S)-2-methoxymethyl-pyrrolidin-1-ylmethyl)-phenyl]-but-1-ynyl}-pyridine

(14) 5-(4-chloro-phenyl)-2-{4-[2-(4-propyl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(15) 5'-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-3-pyrrolidin-1-yl-3,4,5,6-tetrahydro-2H-[1,2']bipyridinyl

(16) 5-(4-chloro-phenyl)-2-{4-[4-(2-methyl-pyrrolidin-1-ylmethyl)-phenyl]-but-1-ynyl}-pyridine

(17) 3-(4-chloro-phenyl)-6-[4-(4-pyrrolidin-1-ylmethyl-phenyl)-but-1-ynyl]-pyridazine

(18) 5-(4-chloro-phenyl)-2-[4-(4-pyrrolidin-1-ylmethyl-phenyl)-but-1-ynyl]-pyridine

(19) 5-(4-chloro-phenyl)-2-{4-[2-(2,6-dimethyl-piperidin-1-yl)-ethoxy]-3-methyl-phenylethynyl}-pyridine

(20) methyl 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-(2-pyrrolidin-1-yl-ethoxy)-benzoate

(21) 5-(4-chloro-phenyl)-2-[3-methyl-4-(2-piperidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(22) 5-(4-chloro-phenyl)-2-[3-methyl-4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(23) 5-(4-chloro-phenyl)-2-{4-[4-(4-methyl-piperidin-1-ylmethyl)-phenyl]-but-1-ynyl}-pyridine

(24) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-piperidin-4-ol

(25) 5-(4-chloro-phenyl)-2-{3-methyl-4-[2-(2-pyrrolidin-1-ylmethyl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(26) {5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-pyridin-2-yl}-(2-piperidin-1-yl-ethyl)-amine

(27) 4-(4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-morpholine

(28) (4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-methyl-piperidin-4-yl-amine

(29) 5-(4-chloro-phenyl)-2-[3-(4-pyrrolidin-1-ylmethyl-phenoxy)-prop-1-ynyl]-pyridine

(30) 6-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-pyrrolidin-1-ylmethyl-1,2,3,4-tetrahydro-quinoline

(31) (1-{5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-pyridin-2-yl}-pyrrolidin-3-yl)-dimethyl-amine

(32) [(S)-1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-pyrrolidin-2-yl]-methanol

(33) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-(2-pyrrolidin-1-yl-ethoxy)-phenylamine

(34) {5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-pyridin-2-yl}-(2-pyrrolidin-1-yl-propyl)-amine

(35) 1-(4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-pyrrolidin-3-ylamine

(36) 2-[3-bromo-4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-5-(4-chloro-phenyl)-pyridine

(37) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-azepan

(38) 5-(4-chloro-phenyl)-2-(6-pyrrolidin-1-ylmethyl-naphthalen-2-ylethynyl)-pyridine

(39) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-N-methyl-2-(2-pyrrolidin-1-yl-ethoxy)-benzamide

(40) (2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-cyclopropylmethyl-propyl-amine

(41) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-4-methyl-piperidin-4-ol

(42) 5-(4-chloro-phenyl)-2-{3-methyl-4-[2-(4-methyl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(43) 5-(4-chloro-phenyl)-3-fluoro-2-{4-[2-(4-methyl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(44) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-1-(2-pyrrolidin-1-yl-ethyl)-1H-indole

(45) {4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenyl}-(2-pyrrolidin-1-yl-ethyl)-amine

(46) methyl [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-piperidin-4-yl]-acetate

(47) {5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-pyridin-2-yl}-methyl-(2-pyrrolidin-1-yl-ethyl)-amine

(48) tert-butyl [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-pyrrolidin-3-yl]-carbaminate

(49) 5-(4-chloro-phenyl)-2-[3-methoxy-4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(50) 5-(4-chloro-phenyl)-2-[4-(2-piperidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(51) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-1-(2-pyrrolidin-1-yl-ethyl)-1H-indazole

(52) 2-[4-(2-azetidin-1-yl-ethoxy)-phenylethynyl]-5-(4-chloro-phenyl)-pyridine

(53) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-(2-pyrrolidin-1-yl-ethoxy)-benzaldehyde O-methyl-oxime

(54) 1'-{5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-pyridin-2-yl}-[1,3']bipyrrolidinyl

(55) (4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-methyl-(1-methyl-piperidin-4-yl)-amine

(56) 5-(4-chloro-phenyl)-2-[3-chloro-4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(57) (S)-1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-pyrrolidin-3-ol

(58) [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-piperidin-4-yl]-pyridin-2-yl-amine

(59) 5-(4-bromo-phenyl)-2-[4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(60) N-[1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-piperidin-4-ylmethyl]-N-methyl-acetamide

(61) 5-(2,4-dichloro-phenyl)-2-[4-(4-pyrrolidin-1-ylmethyl-phenyl)-but-1-ynyl]-pyridine

(62) 5-(4-chloro-phenyl)-2-{4-[2-(4-ethyl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(63) [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-piperidin-4-yl]-methanol

(64) 5-(4-chloro-phenyl)-2-[4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(65) 5-(4-chloro-phenyl)-2-{4-[2-(3,6-dihydro-2H-pyridine-1-yl)-ethoxy]-phenylethynyl}-pyridine

(66) 5-(4-chloro-phenyl)-2-{4-[2-(2-methyl-pyrrolidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(67) (4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-cyclopropylmethyl-amine

(68) 5-(4-chloro-phenyl)-2-{4-[4-(4-pyrrolidin-1-yl-piperidin-1-ylmethyl)-phenyl]-but-1-ynyl}-pyridine

(69) 5-(4-methoxy-phenyl)-2-[4-(4-pyrrolidin-1-ylmethyl-phenyl)-but-1-ynyl]-pyridine

(70) 5-(3,4-difluoro-phenyl)-2-[4-(4-pyrrolidin-1-ylmethyl-phenyl)-but-1-ynyl]-pyridine

(71) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-4-methyl-piperidin-4-ol

(72) 5-(4-chloro-phenyl)-2-{4-[4-((R)-2-methoxymethyl-pyrrolidin-1-ylmethyl)-phenyl]-but-1-ynyl}-pyridine

(73) 6-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-pyrrolidin-1-ylmethyl-quinoline

(74) 1-(4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-4-methyl-piperazine

(75) {5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-pyridin-2-yl}-(2-pyrrolidin-1-yl-ethyl)-amine

(76) 5-(4-chloro-phenyl)-2-(3-methyl-4-{2-[4-(pyridin-2-yloxy)-piperidin-1-yl]-ethoxy}-phenylethynyl)-pyridine

(77) 5-(4-chloro-phenyl)-2-{4-[2-(3,6-dihydro-2H-pyridine-1-yl)-ethoxy]-3-methyl-phenylethynyl}-pyridine

(78) (R)-1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-pyrrolidin-3-ol

(79) 1-(2-{5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-indol-1-yl}-ethyl)-piperidin-4-ol

(80) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-piperidin-4-ol

(81) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-4-phenyl-piperidin-4-ol

(82) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-[4,4']bipiperidinyl

(83) 5-(4-chloro-phenyl)-2-[3-ethynyl-4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(84) 5-(3,4-dichloro-phenyl)-2-[4-(4-pyrrolidin-1-ylmethyl-phenyl)-but-1-ynyl]-pyridine

(85) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-4-methyl-piperidin-4-ylamine

(86) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-(2-pyrrolidin-1-yl-ethoxy)-benzaldehyde-oxime

(87) 5-(4-chloro-phenyl)-2-{4-[2-(2,6-dimethyl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(88) 5-(4-chloro-phenyl)-2-(4-{2-[4-(1H-imidazol-4-yl)-piperidin-1-yl]-ethoxy}-3-methyl-phenylethynyl)-pyridine

(89) [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-piperidin-2-yl]-methanol

(90) (4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-methyl-pyridin-2-ylmethyl-amine

(91) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-piperidin-4-carboxylic acid amide

(92) 2-[(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-methyl-amino]-ethanol

(93) 5-(4-chloro-phenyl)-2-{4-[2-(4-methyl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(94) {2-[1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-piperidin-4-yl]-ethyl}-diethyl-amine

(95) 5-(4-chloro-phenyl)-2-{4-[2-(2,4,6-trimethyl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(96) 5-(4-chloro-phenyl)-2-{4-[2-(3,5-dimethyl-piperidin-1-yl)-ethoxy]-3-methyl-phenylethynyl}-pyridine

(97) cis-2-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-decahydro-isoquinoline

(98) 6-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-2-methyl-2,6-diaza-spiro[3.4]octane

(99) 1-(2-{5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-indol-1-yl}-ethyl)-4-methyl-piperidin-4-ol

(100) [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-pyrrolidin-3-yl]-dimethyl-amine

(101) 5-(4-chloro-phenyl)-2-[3-fluoro-4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-pyridine

(102) [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-piperidin-4-yl]-cyclopentyl-methyl-amine

(103) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-1-(2-pyrrolidin-1-yl-ethyl)-2,3-dihydro-1H-indole

(104) 5-(4-chloro-phenyl)-2-{4-[2-(4-pyrrolidin-1-yl-piperidin-1-yl)-ethoxy]-phenylethynyl}-pyridine

(105) 5-(4-chloro-phenyl)-2-{4-[2-(2,5-dihydro-pyrrol-1-yl)-ethoxy]-phenylethynyl}-pyridine

(106) [1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-piperidin-4-ylmethyl]-dimethyl-amine

(107) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-4-methyl-piperazine

(108) (4-{4-[5-(4-chloro-phenyl)-pyridin-2-yl]-but-3-ynyl}-benzyl)-pyridin-2-ylmethyl-amine

(109) 1-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-spiro[piperidin-4,2'(1H')-quinazoline]-4'(3'H)one

(110) 4-{[(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-methyl-amino]-methyl}-phenol

(111) 5-(4-chloro-phenyl)-2-[4-(3-piperidin-1-yl-pyrrolidin-1-yl)-phenylethynyl]-pyridine

(112) 5-(4-chloro-phenyl)-2-[2-(2-pyrrolidin-1-yl-ethoxy)-pyridin-5-yl-ethynyl]-pyridine

(113) 3-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-9-methyl-3,9-diaza-spiro[5.5]undecane

(114) (2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-2-methyl-phenoxy}-ethyl)-diisopropyl-amine

(115) 5-(4-chloro-phenyl)-2-[4-(3-pyrrolidin-1-yl-propyl)-phenylethynyl]-pyridine

(116) 2-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-1,2,3,4-tetrahydro-isoquinoline

(117) 3-(4-chloro-phenyl)-6-[4-(2-pyrrolidin-1-yl-ethoxy)-phenylethynyl]-pyridazine

(118) (R)-1-(2-{5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-indol-1-yl}-ethyl)-pyrrolidin-3-ol

(119) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-3-methyl-1-(2-pyrrolidin-1-yl-ethyl)-1,3-dihydro-benzimidazol-2-one

(120) 5-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-1-(2-pyrrolidin-1-yl-ethyl)-1H-benzimidazole

(121) 2-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-1-methyl-5-pyrrolidin-1-ylmethyl-1H-benzimidazole

(122) trans-2-(2-{4-[5-(4-chloro-phenyl)-pyridin-2-ylethynyl]-phenoxy}-ethyl)-decahydro-isoquinoline

including the tautomers, the diastereomers, the enantiomers, the mixtures thereof and the salts thereof.

16 Physiologically acceptable salts of the alkyne compounds according to claim 1.

17. Composition, comprising at least one alkyne compound according to claim 1, optionally together with one or more inert carriers and/or diluents.

18. Use of at least one alkyne compound according to claim 1 for influencing the eating behaviour of a mammal.

19. Use of at least one alkyne compound according to claim 1 for reducing the body weight and/ or for preventing an increase in the body weight of a mammal.

20. Use of at least one alkyne compound according to claim 1 for modulating MCH activity in a mammal by providing a MCH receptor antagonist.

21. Use of at least one alkyne compound according to claim 1 for the prevention and/or treatment of urinary problems, such as for example urinary incontinence, overactive bladder, urgency, nycturia and enuresis, in a mammal.